Kreye Blankenship, Inc.

Consulting Engineers & Environmental Scientists

October 11, 2011

Mr. Douglas D. Frasier VPDES Permit Writer, Senior II VADEQ Northern Regional Office 13901 Crown Court Woodbridge, Virginia 22193

Re: VPDES Permit Application Arogas, Inc. (d.b.a. Mr. Fuel)

Dear Mr. Frasier:

Enclosed is the VPDES permit application for the Arogas, Inc. (d.b.a. Mr. Fuel) facility located in Ruther Glen, Virginia. This submittal includes a copy of the VPDES Permit Application Addendum, Form 1, Form 2F, and the Public Notice Billing Information form. A copy of the Permit Application Form and a copy of the check is also attached. The Local Government Ordinance Form has been submitted to Caroline County for processing. This VPDES application is submitted by Kreye Blankenship, Inc. on behalf of Mr. Fuel. We have also enclosed a compact disc containing the permit application for your use.

The analytical data presented in the permit application was obtained from grab samples collected at the oil/water separator discharge after water was introduced into the trench drain system located at the diesel fuel island canopy area. A waiver is requested to provide the test results for flow-weighted composite samples.

Phone: (804) 347-4684

Fax: (804) 302-5454

Should you have any questions regarding this application, please feel free to contact me.

Sincerely,

Kreve Blankenship, Inc.

Terry L. Blankenship, P.E.

Vice President

Enclosures

cc: Kevin J. Manning

Gary Poland

Donald D. Thomas

VPDES Permit Application Addendum

1. Entity to whom the perr	nit is to be issued: AROGAS, INC. d.b.a. MR. FUEL
Who will be legally responsible not be the facility or property o	for the wastewater treatment facilities and compliance with the permit? This may or may
2. Is this facility located wi	ithin city or town boundaries? Yes No X
3. Provide the tax map par	rcel number for the land where the discharge is located. 82-15-A1
4. For the facility to be cov	vered by this permit, how many acres will be disturbed during the next
and the second s	truction activities? NONE
5 337	age effluent flow of this facility? N/A MGD
The state of the s	age effluent flow of this facility? N/A MGD provide the max. 30-day average production level, include units:
	um monthly rainfall, discharge from diesel fuel island trench estimated at 643 gpd
other discharge flow tie	n flow or production level, should the permit be written with limits for any rs or production levels? Yes No X the other flow tiers (in MGD) or production levels:
Please consider the following of expand operations during the n	questions for both the flow tiers and the production levels (if applicable): Do you plan to next five years? Is your facility's design flow considerably greater than your current flow?
6. Nature of operations ge	nerating wastewater:
Rain water and/or wash do	wn at diesel fueling island.
0 % of flow from don	nestic connections/sources
Number of private reside	ences to be served by the treatment works:
100 % of flow from non	-domestic connections/sources
7. Mode of discharge : Describe frequency an	Continuous X Intermittent Seasonal and duration of intermittent or seasonal discharges:
8. Identify the characteris discharge point:	stics of the receiving stream at the point just above the facility's
Permanent stream,	never dry
Intermittent stream	, usually flowing, sometimes dry
	wet-weather flow, often dry
	t stream, usually or always dry without effluent flow
Lake or pond at or	below the discharge point
Other:	
9. Approval Date(s):	
O & M Manual N/A	Sludge/Solids Management Plan N/A
Have there been any cha	inges in your operations or procedures since the above approval dates? Yes No
N/A	
4 17 4 10	

RUTHER GLEN

C. CITY OR TOWN

CAROLINE

6 15 16

F. COUNTY CODE (if known)

b33

E. ZIP CODE

22546

D. STATE

VA

A. FIRST		B. SECOND	
(specify) TRUCK STOP AND PLAZA	c (specify)		
541	16 15 18	D. FOURTH	
C. THIRD	c (specify)		
specify	15 16 , 19		
OPERATOR INFORMATION	PROCESSION OF THE PROPERTY OF THE PARTY OF T		B, Is the name listed in Item
A.	NAME I I I I I I I I I I I I I I I I I I I		VIII-A also the owner?
ROGAS, INC.			55 66 ES LINO
C STATUS OF OPERATOR (Enter the appropri	riate letter into the answer box: if "Other," specify.)		D. PHONE (area code & no.)
	(specify)		A (636) 947-0255
STATE O = OTHER (specify)			15 6 - 18 19 - 21 22 -
PRIVATE	56		
E. STREET OR P.O. BOX			
O. BOX 580	56		
F. CITY OR TOWN	G. STATE	H. ZIP CODE IX.	INDIAN LAND
	MO MO		the facility located on Indian lands
ST. PETERS		2 47 - 51 52	
6 DEPARTMENTAL DEPARTS			
XISTING ENVIRONMENTAL PERMITS A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissions from Proposed Sources)		
N I I I I I I I I I I I I I I I I I I I	1 27 19	30	
16 17 18 B. UIC (Underground Injection of Fluids)		HER (specify) (specify)	
U 56 17 18 30 15 16	s 17 18 E. OTI	HER (specify)	
C. RCRA (Hazardous Wastes)		(specify)	
RI I		30	
16 17 18 30 15 16		30	
16 17 18			t show the outline of the facility,
MAP MAP MAP A this application a topographic map of the area extending	ng to at least one mile beyond property bound	daries. The map must	t show the outline of the facility, osal facilities, and each well when rements.
MAP ach to this application a topographic map of the area extendination of each of its existing and proposed intake and discharge ects fluids underground. Include all springs, rivers, and other sur	ng to at least one mile beyond property bound	daries. The map must	s show the outline of the facility, osal facilities, and each well when rements.
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15 18 EPA Form 3510-1 (8-90)

D. Receiving Water

(name)

Please print or type in the unshaded areas only.

Outfall Location

A. Outfall Number

(list)

001



U.S. Environmental Protection Agency Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Unnamed Tributary

Paperwork Reduction Act Notice
Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

C. Longitude

-77

27

59.7

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

24.9

B. Latitude

56

. Improvements								
A. Are you now req	uired by any Fed	deral, State, or				edule for the construction, upgrading arges described in this application? Ti s, stipulations, court orders, and grar	nt or loan condition	
4 Identification of	Conditions		2. Affected Outfalls				Complia	
Identification of Agreements	s, Etc.	number	source of disc	narge	3	. Brief Description of Project	a. req.	b. proj.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility. See Figures 1,2,&3

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

Continued	from	the	Fron
IN Alam	-41.	~ F	1000

ntinued fr	om the Front				
A. For eac	tive Description of Pollutant S th outfall, provide an estimate of the area (inclided by the outfall.	de units) of imperious surface	es (including paved a	reas and building roofs) drained to the outfall, and	d an estimate of the total surface are
Outfall	Area of Impervious Surface	Total Area Drained	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
Number 01	(provide units) 600 sq. ft.	(provide units)	Number	(provide dime)	
	m water; method of treatment, storage, water runoff; materials loading and acc			years have been treated, stored or dispos inagement practices employed to minimize equency in which pesticides, herbicides, so	
a dieg	al fuel island is inspected ea	ch shift for spills	or leaks. Sma	all spills are cleaned via absor	bent materials and remo
th a sl	novel and broom for proper dis	posal.			
C For	each outfall, provide the location and a	description of existing str	uctural and nonst	ructural control measures to reduce pollut	ants in storm water runoff; and
desc	ription of the treatment the storm water by solid or fluid wastes other than by disc	receives, including the sci	hedule and type of	f maintenance for control and treatment m	easures and the ultimate dispos
Outfall		margo.			List Codes from
Numbe			Treatment	and arrow is sovered by a concr	Table 2F-1
01		in the twenth drain	e concrete tre	nch apron is covered by a concre	lon
	canony, Liquids collecting	III the trenth dram	n system are d	Trected to an on bros story	The state of the s
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Continued from Page 2

VII. Discharge Information			
Table VII-A, VII-B, VII-C	proceeding. Complete one set of tables for each c are included on separate sheets numbers VII-1	and VII-2.	
Potential discharges not covered to currently use or manufacture as an	by analysis – is any toxic pollutant listed in tablintermediate or final product or byproduct?		omponent of a substance which you
Yes (list all such pollutar	ats below)	✓ No (go to Section IX)	
	r Dete		
VIII. Biological Toxicity Testin	n to believe that any biological test for acute or ch	pronic toxicity has been made on any of you	r discharges or on a receiving water in
relation to your discharge within the la	st 3 years?		
Yes (list all such pollutar	its below)	No (go to Section IX)	
	Item VII performed by a contract laboratory or col		
✓ Yes (list the name, addr analyzed by, each s	ess, and telephone number of, and pollutants such laboratory or firm below)	No (go to Section X)	D. Pollutants Analyzed
A. Name	B. Address	C. Area Code & Phone No.	D. Foliutante Analyzeu
Primary Laboratories	7423 Lee Davis Road Mechanicsville, VA 23111	(804) 559-9004	Oil & Grease, BOD5, COD, TSS,Total Nitrogen, Total Phosphorus,TPH, BTEX, Cyanide, Chloride, Hex. Chromium, Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickle, Selenium, Silver,Zinc
X. Certification	AND REAL PROPERTY OF PERSONS		
I certify under penalty of law that this that qualified personnel properly gath	s document and all attachments were prepared to be and evaluate the information submitted. Based information, the information submitted is, to the mitting false information, including the possibility	e best of my knowledge and belief, true, ac	curate, and complete. I am aware that
A Name & Official Title (Type Or Print		B. Area Code and Phone No.	
C. Signature	anning, Vice-hes	D. Date Signed	
K our W	(anny	()0	` /

VII. Discharge information (Continued from page 3 of Form 2F)

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

		um Values ude units)		rage Values clude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	13.2 mg/L	N/A	9.48 mg/L	Waiver Requested	6	Diesel Fuel Island
Biological Oxygen Demand (BOD5)	96.2 mg/L	Waiver Requested	54.0 mg/L	Waiver Requested	6	Diesel Fuel Island
Chemical Oxygen Demand (COD)	316.2 mg/L	Waiver Requested	316.2 mg/L	Waiver Requested	1	Diesel Fuel Island
Total Suspended Solids (TSS)	41.0 mg/L	Waiver Requested	26.7 mg/L	Waiver Requested	6	Diesel Fuel Island
Total Nitrogen	8.27 mg/L	Waiver Requested	8.27 mg/L	Waiver Requested	1	Diesel Fuel Island
Total Phosphorus	1.73 mg/L	Waiver Requested	1.73 mg/L	Waiver Requested	1	Diesel Fuel Island
рН	Minimum 8.3	Maximum	Minimum 7.13	Maximum	6	Diesel Fuel Island

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

requir	ements.					
	Maxim (incl	num Values ude units)	Ave (in	erage Values oclude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
TPH (DRO)	1.3 mg/L	Waiver Requested	1.3 mg/L	Waiver Requested	1	Diesel Fuel Island
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				

Continued	from	the	Front

Part C - List	Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.						
	Maximu	um Values de units)	Ave	rage Values clude units)	Number		
Pollutant	Grab Sample	de dimoj	Grab Sample	olude arme)	of Storm		
and CAS Number (if available)	Taken During First 20 Minutes	Flow-Weighted Composite	Taken During First 20 Minutes	Flow-Weighted Composite	Events Sampled	Sou	rces of Pollutants
BTEX	0.35 mg/L	Waiver Requested	0.24 mg/L	Waiver Requested	6	Diesel Fuel I	sland
Copper	0.104 mg/L	Waiver Requested	0.064 mg/L	Waiver Requested	6	Diesel Fuel I	sland
Zinc	0.045 mg/L	Waiver Requested	0.017 mg/L	Waiver Requested	6	Diesel Fuel I	sland
						-	
						-	
						-	
						 	
						1	
					<u> </u>		
				<u></u>			
Part D - P	rovide data for the s	torm event(s) which res	ulted in the maxin	num values for the flow we	ighted composit	e sample. Waive	er Requested
		3.		4.		5.	6.
1. Date of	2. Duration	Total rai	nfall	Number of hours betw beginning of storm mean	sured	m flow rate during rain event	Total flow from
Storm	of Storm Event (in minutes)	during stori	m event	and end of previous measurable rain eve	s (gai	lons/minute or pecify units)	rain event (gallons or specify units)
Event	(iii minutes)	(III IIICI)		Theasurable fair 646			(3
		*					
		method of flow measure	ment or estimate.				
See Attach	ed sheet.						

Part D - Item 7

A number of methods are available to determine the discharge associated with a drainage area. The most common and simplest method of determining the discharge is the Rational Method. The Rational Method is based on a simple formula that relates runoff-producing potential of the watershed, the average intensity of rainfall for a particular length of time (the time of concentration), and the watershed drainage area. The formula is

Q = CiA

Where:

Q = Estimated peak rate of runoff (cfs),

C = Runoff coefficient; fraction of runoff, expressed as a dimensionless decimal fraction, that appears as surface runoff from the contributing drainage area,

i = Rainfall Intensity (inches per hour), and

A= The contributing tributary drainage area to the point of design in acres which produces the maximum peak rate of runoff.

Due to the limited surface area exposed to rainfall and subsequent potential to discharge to the trench drain system, a modified form of the Rational Method is used to estimate the flow contribution. Rather than using rainfall intensity, measured as inches per hour, the total daily rainfall (inches) is used to estimate the discharge.

Only a portion of the trench drain concrete apron (1'-6' wide) is exposed to the elements in eight of the ten truck bays. The trench drain apron serving the remaining two truck bays is located totally under the concrete canopy. No consideration will be given to the amount of rainfall collected due to the angle of incidence (influenced by wind speed and water droplet size). Therefore, it is assumed that an area of 1.5 feet wide by 160 feet long of the trench drain apron is exposed. In addition, a runoff coefficient of 1.0 (ignoring any absorptive or evaporative considerations) will be applied.

The following table presents a total rainfall event (tenths of inch increments) with the corresponding potential quantity of stormwater discharged to the proposed Outfall 001. The rainfall events shown vary from 0.00 inches to 8.00 inches (estimated 100 year, 24 hour storm

event). Assuming an average monthly rainfall of 3.5 inches, the average discharge to Outfall 001 would be approximately 524 gallons per month.

Mr. Fuel personnel will record daily rainfall events on a log sheet along with the corresponding estimated flow discharged to Outfall 001. The rainfall readings should be taken at the same time each day, say 8:00 a.m.

DISCHARGE TABLE

Rainfall,	Q, gallons
inches	
0.0	0
0.1	15
0.2	30
0.3	45
0.4	60
0.5	75
0.6	90
0.7	105
0.8	120
0.9	135
1.0	150
1.1	165
1.2	180
1.3	194
1.4	209
1.5	224
1.6	239
1.7	254
1.8	269
1.9	284
2.0	299
2.1	314
2.2	329
2.3	344
2.4	359
2.5	374
2.6	389
2.7	404
2.8	419
2.9	434
3.0	449
3.1	464
3.2	479
3.3	494
3.4	509
3.5	524
3.6	539
3.7	554
3.8	568
3.9	583
4.0	598

Rainfall,	Q, gallons
inches	
4.1	613
4.2	628
4.3	643
4.4	658
4.5	673
4.6	688
4.7	703
4.8	718
4.9	733
5.0	748
5.1	763
5.2	778
5.3	793
5.4	808
5.5	823
5.6	838
5.7	853
5.8	868
5.9	883
6.0	898
6.1	913
6.2	928
6.3	942
6.4	957
6.5	972
6.6	987
6.7	1,002
6.8	1,017
6.9	1,032
7.0	1,047
7.1	1,062
7.2	1,077
7.3	1,092
7.4	1,107
7.5	1,122
7.6	1,137
7.7	1,152
7.8	1,167
7.9	1,182
8.0	1,197

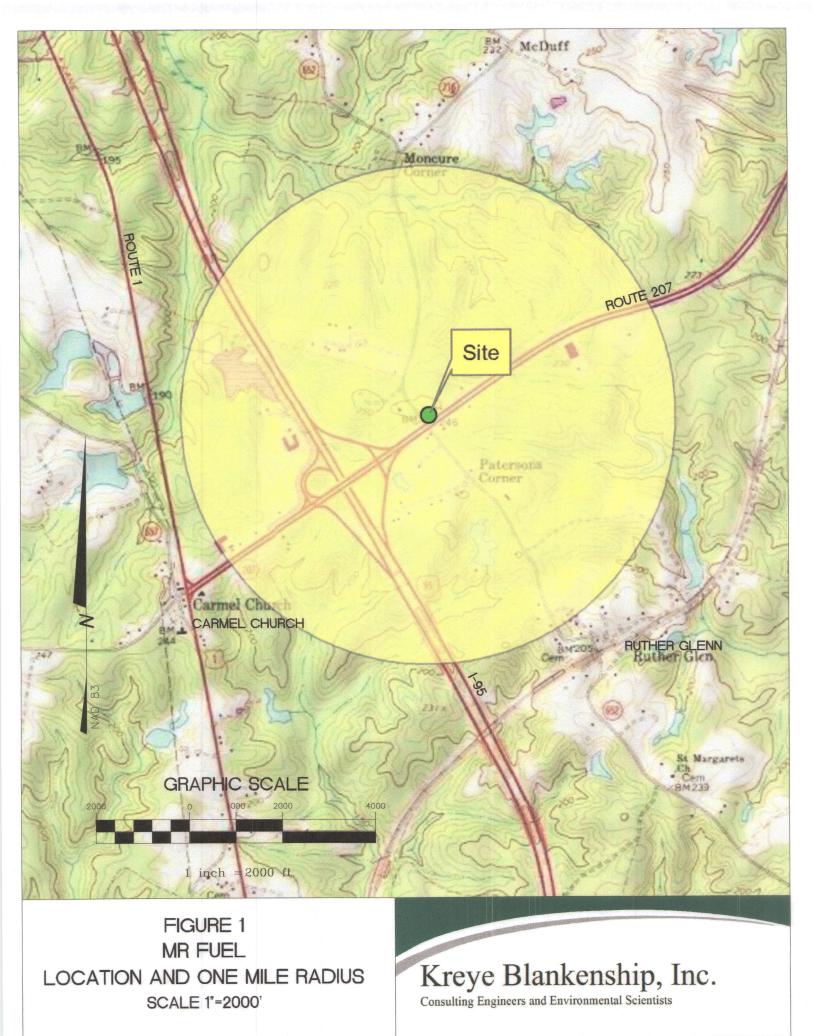


FIGURE 2 – SATELLITE MAP

FIGURE 3 – SATELLITE MAP

PUBLIC NOTICE BILLING INFORMATION

hereby authorize the Department of Enviro	onmental Quality to have the cost of publishing	shing a public
notice billed to the Agent/Department shows	n below. The public notice will be publish	ned once a week
for two consecutive weeks in _The Free Lan	nce Star	in accordance
with 9 VAC 25-31-290.C.2.		
Agent/Department to be billed:	Kevin J. Manning	
Owner:	Arogas, Inc.	
Agent/Department Address:	P.O. Box 580	
	St. Peters MO 63376	
Agent's Telephone No.:	(636) 947-0255	
Printed Name:	Kevin J. Manning	
Authorizing Agent – Signature:	Kein Warners	
Date:	9-30-11	

Facility Name: Arogas, Inc. d.b.a. Mr. Fuel

DEPARTMENT OF ENVIRONMENTAL QUALITY WATER DIVISION PERMIT APPLICATION FEE FORM EFFECTIVE JANUARY 1, 2008

INSTRUCTIONS

Applicants for individual Virginia Pollutant Discharge Elimination System (VPDES), Virginia Pollution Abatement (VPA), Virginia Water Protection (VWP), Surface Water Withdrawal (SWW), and Ground Water Withdrawal (GWW) Permits are required to pay permit application fees, except farming operations engaged in production for market. Fees are also required for registration for coverage under General Permits except for the general permits for sewage treatment systems with discharges of 1,000 gallons per day (GPD) or less and for Corrective Action Plans for leaking underground storage tanks. Except for VWP permits, fees must be paid when applications for permit issuance, reissuance* or modification are submitted. Applicants for VWP permits will be notified by the DEQ of the fee due. Applications will be considered incomplete if the proper fee is not paid and will not be processed until the fee is received. (* - the reissuance fee does not apply to VPDES and VPA permits - see the fee schedule included with this form for details.)

The permit fee schedule is included with this form. Fees for permit issuance or reissuance and for permit modification are included. Once you have determined the fee for the type of application you are submitting, complete this form. The original copy of the form and your check or money order payable to "Treasurer of Virginia" should be mailed to:

Department of Environmental Quality Receipts Control

P.O. Box 1104

Richmond, VA 23218

A copy of the form and a copy of your check or money order should accompany the permit application. You should retain a copy for your records. Please direct any questions regarding this form or fee payment to the DEQ Office to which you are submitting your application.

APPLICANT NA	ME: Aroga	e Inc				
APPLICANT NA	Alvie. Aloga	5, 1116.				
ADDRESS: P	O. Box 580					
S	t. Peters, MC	63376				
DAYTIME PHO	NE: (636)	947 - 255	IRS Em [aka Fed	ployer Identification Num eral Tax Identification Number	ber (EIN): er (FIN)]	431174064
	Area Code					
FACILITY/ACTI	VITY NAME:	Arogas, Ir	nc. d.b.a. Mı	r. Fuel		
LOCATION: 2	23818 Rogers	Clark Boul	evard, Ruth	er Glen, Virginia 225	546	
TYPE OF PERM (from Fee Schedu		\/D	DES Industi	rial Minor / Standard	Limits	
TYPE OF ACTI	ON:	New Issua	nce	Reissuance	Modi	ification
AMOUNT OF F	EE SUBMITT	ED (from Fee	Schedule):	3300		
EXISTING PER	MIT NUMBE	R (if applicable): NA		-	
DEQ OFFICE T	O WHICH AI	PPLICATION	SUBMITTE	ED (check one)		
☐ Abingdon/SV		☐ Harrisonbu	-	⊠ Woodbridge/NV □ Roanoke/BRRO		☐ Lynchburg/BRRO-L☐ Virginia Beach/TRO
FOR DEQ USE ON Date:	ILY	_	_	rm and Check - DEQ Ro rm and Copy of Chec	k - DEQ F	ntrol, Richmond Regional Office or Permit am Office